

Matrox® ConvertIP™ SRH

Single-channel RJ45 HDMI-to-IP transmitter/receiver

Matrox ConvertIP SRH is a compact, standalone ST 2110 and IPMX transmitter/receiver device. Featuring one RJ45 port, ConvertIP SRH is designed for 1G AV workflows and is optimal for an ultra-low latency experience. The device can deliver power over Ethernet through its RJ45 connection, or it can be powered through an optional power supply unit. Both can be used simultaneously to deliver power redundancy.



Technical specifications

Product		
Part Number	CIP-SRH	
Form Factor	<ul style="list-style-type: none"> Standalone appliance Rack-mountable: 1U, 1/3 rack (horizontal) 	
Connectivity		
Video Input	1x HDMI	
Video Input Resolutions	HD and 4K broadcast resolutions	
Video Outputs	1x HDMI (zero latency pass-through in Tx mode)	
Audio Input/Output	<ul style="list-style-type: none"> Up to 8 channels of audio embedded in HDMI signal Unbalanced analog stereo input via 1/8" (3.5mm) jack Line Level 	
Network Connector	<ul style="list-style-type: none"> 1x RJ45 LAN for Media/Control 	
Control and Management	<ul style="list-style-type: none"> Web browser-based UI, standalone utility 	
Performance		
Maximum Video Resolutions	4096 x 2160 60p	
Bit Depth and Color Space	<ul style="list-style-type: none"> YCbCr 4:2:0 10-bit¹ and 8-bit² YCbCr 4:2:2 10-bit RGB 4:4:4 8-bit SDR/HDR³ 	
Video and Audio Processing		
Video Scaling	High Quality multi-tap 10-bit Up/Down Scaler	
Video Deinterlacing	Yes	
Color Space Conversion	Yes	
HDCP Support	Yes	
Encoding formats		
Video ⁴	<ul style="list-style-type: none"> ProAV 4:4:4 8-bit codec; HD 200 Mbps, 4K 800 Mbps Optional: JPEG-XS 4:2:2 10-bit; HD 400 Mbps, 4K 1.6 Gbps, 	
Audio	Uncompressed PCM (~1 Mbps/ch)	
Latency	Less than a 1/4 frame (<4 ms)	
HDCP Support	Yes	
Network		
Network Standard	RJ45 providing 1 GbE or 2.5 GbE Base-T Ethernet	
IP Addressing	<ul style="list-style-type: none"> IPv4 IPv6⁵ DHCP (default) and static IP 	
Supported Protocols	<ul style="list-style-type: none"> SMPTE ST 2110 (-10, -20, -21, -22, -30, -31, and -40) SMPTE ST 2059-2 SMPTE ST 2022-7 	
Redundancy	Yes (ST 2022-7)	
Command and Control	HTTPS over TCP	
Discovery, Registration and Control	NMOS discovery and control according to standards IS-04 v1.3 and IS-05 v1.1	
PoE+	Yes (IEEE 802.3at Type 2)	

Physical	
Product Dimensions	7.13 (D) x 5.5 (W) x 1.42 (H) inches 181 (D) x 138 (W) x 36 (H) mm
Unit Weight	1.44lbs / 655 g
Cooling	Fanless
Power	<ul style="list-style-type: none"> • Device: Input: 12 volts, max 18 Watts • PoE+ • Optional PSU (sold separately) <ul style="list-style-type: none"> • Line Voltage: 100-240 V a.c., 0.5A • Frequency: 50-60 Hz • Input: IEC320-C14 • Output: DIN4 locking power connector
Hardware and Software	
Hardware Included	ConvertIP SRH appliance
Optional Hardware	ConductIP NMOS-based routing solution (Part #: CDCTIP-SERV)
Accessories (sold separately)	<ul style="list-style-type: none"> • ConvertIP power supply unit (Part #: EPS40WKIT-NA, EPS40WKIT-EU, EPS40WKIT-UK, EPS40WKIT-AU, EPS40W-10PK)⁶ • Rackmount kit⁷ (Part #: RMK-19TR-A) • Angled bracket kit (Part #: RMK-6BRKT-A) • Secure cable solution for HDMI (Part #: SK-SLND-4) • NRG redundant power supply unit (Part #: NRG-5-1DB or NRG-5-2DB)
Software	<ul style="list-style-type: none"> • Matrox ConvertIP Command Center (Web UI) • Matrox ConvertIP Manager (Microsoft® Windows® 10)
Optional software	JPEG-XS codec license
Environmental	
Operating Conditions	Temperature: 0 to 45 degrees Celsius Altitude: 650 hPa (3,580 m) to 1,013 hPa (0 m) Humidity: 20% to 80% non-condensing
Storage Conditions	Temperature: -40 to 70 degrees Celsius Altitude: 192 hPa (12,000 m) to 1,020 hPa (-50 m) Humidity: 5% to 95% non-condensing
General	
EMC/EMI Device Class	Class A
EMC/EMI Compliance	<ul style="list-style-type: none"> • CE (EU) • FCC (USA) • ICES-003 (Canada) • KC (Korea) • RCM (Aus/NZ)
Environmental Compliance	<ul style="list-style-type: none"> • China RoHS • EU RoHS • REACH
Warranty	Three-year limited warranty with free online or telephone support

1. 2. 3. 5. Available in a future software update.

4. Bitrates will vary according to resolution.

6. Part # EPS40W-10PK does not include IEC-C14 power cord. These cables must be sourced locally.

7. Can fit up to three ConvertIP units in a 1RU space.



Contact Matrox

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